

CLAIMS

1. A sluice feeder comprising an inlet (1), an outlet (11), and a rotor (2), into which sluice feeder material to be fed from a first medium to a second medium sealed from the first medium is fed to the inlet (1), **characterized in** that the inlet (1) is directed towards the centre portion of the rotor (2), the rotor (2) and a cooperating stator (7), respectively, show at least a radial opening (5, 8) each and are provided so that at least one pocket (9) is formed by the opening (5) of the rotor and the stator (7), which pocket (9) alternatingly opens either radially inwards or radially outwards and seals either radially inwards or radially outwards, respectively, upon rotation of the rotor (2) relative to the stator (7), whereby the material is thrown radially outwards by the rotor (2) to the pocket (9) to finally be emptied from the pocket (9) to the outlet at the same time as the pocket (9) is sealed towards the inlet (1) by means of the stator (7).

2. A sluice feeder according to claim 1, in which the rotor (2) comprises at least one concentric rotor ring (4) and the stator (7) comprises at least two concentric stator rings (15) provided so that an inner stator ring (15) may radially seal the inlet to the pocket (9) formed by the opening (5) in the rotor ring (4) and an outer stator ring (15) may radially seal the outlet from the pocket (9).

3. A sluice feeder according to claim 1, in which the rotor (2) comprises at least two concentric rotor rings (4) and the stator (7) comprises at least three stator rings (15) provided so that an inner stator ring (15) may radially seal the pocket (9) formed by the opening (5) in the rotor ring (4) and an outer stator ring (15) may radially seal the outlet from the pocket (9) and a stator ring (15) is provided between each rotor ring (4) for division of the pocket (9) into radially separate portion pockets (9).

4. A sluice feeder according to claim 1, 2 or 3, in which the rotor (2) is provided with at least one conveying means (3) in its center portion for aiding the feeding of the material in radial direction.

5. A sluice feeder according to any one of the previous claims, in which a ring shaped valve (12) with at least one radial opening (14) is rotatably provided around the outermost stator ring (15).